

## Faceting 101 - Lesson 7

Harmonious Hexagon

by Arya Akhavan (October 2012)

Angles for R.I. = 1.580

61 + 6 girdles = 67 facets

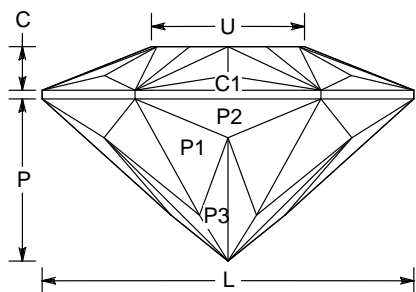
6-fold, mirror-image symmetry

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$L/W = 1.155$   $T/W = 0.510$   $U/W = 0.475$

$P/W = 0.503$   $C/W = 0.135$

$Vol./W^3 = 0.259$



### PAVILION

P1	43.03°	04-12-20-28-36-44-52-60-68-76-84-92	Cut to centerpoint.
G1	90.00°	96-16-32-48-64-80	Set stone size.
P2	65.02°	96-16-32-48-64-80	Meet P1, G1 (level girdle)
P3	41.03°	02-14-18-30-34-46-50-62-66-78-82-94	Meet P1, P2

### CROWN

C1	38.47°	96-16-32-48-64-80	Set girdle width.
C2	25.76°	02-14-18-30-34-46-50-62-66-78-82-94	Meet G1, C1
C3	21.90°	06-10-22-26-38-42-54-58-70-74-86-90	Meet G1, C1, C2
T	0.00°	Table	Meet C2, C3

Lesson 7 brings us to the hexagon, and a new concept, the barion. Barions cut a circular cone (P1), then squash it into a non-circular outline (G1) with "adapter faces" (P2). This lesson teaches how to cut a geometric barion, and the "Princess" style of cutting multiple facets into a corner (C1 - C3).

Lesson rules: cut in morganite, with no size restriction

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